Panasonic

ideas for life

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

AVCHD

FULL HD 1920X1080

HD Camcorder
HIGH DEFINITION

1920 x 1080 Full-HD Recording[*1] —— For a

FULL HD 1920X1080

AVCHD

Boasting 1920 x 1080-pixel recording, Panasonic's new HD camcorders deliver the highest-definition images of the entire Panasonic home camcorder range. Add cutting-edge technologies like Advanced O.I.S. (optical image stabiliser), a 3CCD Camera System and a superb Leica Dicomar lens, and you can see why Panasonic's new camcorders achieve a level of beauty that is simply unparalleled.

Choose the SD card model or the new SD/DVD hybrid model. Either way, you get a camcorder that is perfect for capturing clear, vivid full-HD images that are breathtaking when viewed on a large-screen TV.

HD Camcorder
HIGH DEFINITION

3CCD PROFESSIONAL TECHNOLOGY SYSTEM

ADVANCED O.I.S.

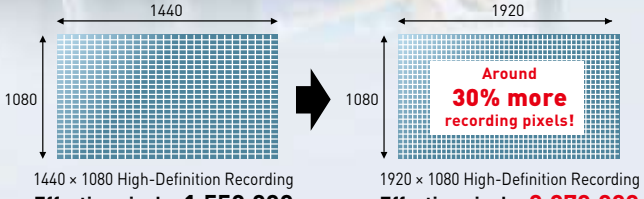
LEICA DICOMAR

*1 In HG (high image quality) mode. 1920 x 1080 full-HD recording with a Panasonic home-use camcorder refers to recording with 1,920 pixels in the horizontal direction and 1,080 pixels in the vertical direction.
Cover: HDC-SD5 comes with 4GB SDHC Memory Card.

Big Screen Full of Vivid, Beautiful Images

What is the advantage of 1920 x 1080 full-HD recording?

Images recorded by conventional HD camcorders have only 1,440 horizontal pixels, while full-HD camcorders have 1,920. In terms of total pixels, conventional HD camcorders record images with 1.55 million pixels, while those from our full-HD camcorders have around 2.07 million pixels – about 30 percent more. The result is a level of detail and resolution that goes beyond anything you've experienced before. And because full-HD recordings contain a vast amount of picture information, they look beautiful not only on high-definition TVs, but on conventional (standard-definition) TVs as well.



*2 As of July 30, 2007 *3 Usable capacity will be less. ◊ An 8GB SD Memory Card will go on sale in September 2007.

Technology and Quality Inherited from Broadcast and Professional Camera-Recorders

Precise hand-shake compensation: Prevents blurry images caused by unsteady hands as you shoot

Advanced O.I.S. (Optical Image Stabiliser)

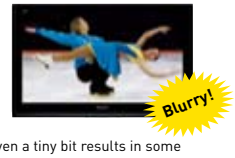
Panasonic's Advanced O.I.S. is a new image stabilising function that achieves around eight times higher precision than our previous system. The system uses gyro-sensors to detect hand-shake, then shifts a lens and adjusts its optical axis to compensate. And while our previous system checked and compensated for hand-shake around 500 times per second, the new Advanced O.I.S. works around 4,000 times per second. Advanced O.I.S. enables finer, more effective hand-shake compensation. Also, because the system is optical, no image quality is lost. With Advanced O.I.S., you'll capture images that are clear, sharp and beautiful on a big TV screen.

The skaters' expressions and costumes are crisp and razor-sharp. Even on a big screen, the images are virtually blur-free.

The hand-shake correction frequency has been increased from 500 to 4,000 times per second!

The lens moves up/down or left/right and bends the incoming light to correct hand-shake.

50" Display (O.I.S. OFF)

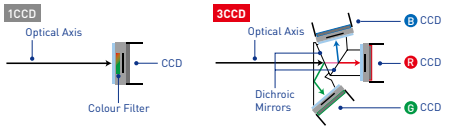


Moving the camcorder even a tiny bit results in some blurring – which is especially noticeable on a large screen.

Superb colour reproduction – faithful, natural colours with delicate nuances

3CCD Camera System

Most professional broadcasting cameras use the 3CCD camera system, due to its superior colour reproduction. In a 1CCD system, all of the incoming light information is processed by the same CCD. The more advanced 3CCD system uses three distinct CCDs for processing, so there is absolutely no light loss. The 3CCD camera system draws out the full potential of full-HD image quality.



1CCD The woman's skin and flowers don't look natural, they look artificial.

3CCD **The woman's skin and flowers have natural colour and look real.**

A superb optical system that captures even delicate, subtle nuances

Leica Dicomar Lens

The SD5 and SX5 boast a Leica Dicomar lens. Developed specifically for full-HD digital camcorders, this lens system is made using a multi-coating process that minimises light reflection and glare, which can make colours bleed and images appear washed out. It also minimises rings of light, or "ghosts."

*Leica is a registered trademark of Leica Microsystem IR GmbH, and Dicomar is a registered trademark of Leica Camera AG.

Washed-out image due to strong light

Multi-coated lens: clear image with no colour bleeding

High-speed processing: An imaging engine that handles the vast amount of data in full-HD images

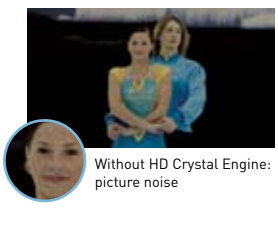
HD Crystal Engine

Panasonic took the advanced imaging circuitry used in our professional equipment and adapted it for home use in the HD Crystal Engine. The result is a high-speed processing unit that can handle the huge volumes of data captured in high-definition video recordings. The HD Crystal Engine also incorporates a new system that improves resolution and reduces noise while achieving a more compact size and lowering power consumption.

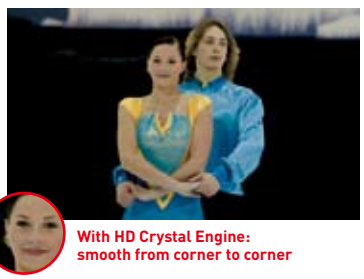
Video Compression LSI

Designed specifically for full-HD recording, this advanced LSI provides the high compression (H.264 High Profile used) needed to achieve high-resolution recording with a low bit rate. It helps ensure beautiful recordings by minimising the image degradation that can occur when shooting fast-moving subjects.

HD Crystal Engine



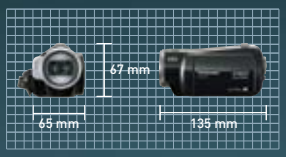
Without HD Crystal Engine: picture noise



With HD Crystal Engine: smooth from corner to corner

Australia's Smallest & Lightest Full-HD Camcorder* SD5

Full-HD Recording onto SDHC/SD Memory Cards



Use of the super-small SDHC/SD Memory Card helped us create Australia's smallest & lightest full-HD camcorder*. The SD5 fits comfortably in the hand and can be used for long periods without causing fatigue.

With the SDHC/SD Memory Card, shooting video is easier and more convenient

A compact size and super-fast startup

The SDHC/SD Memory Card is small and convenient. And because there are no moving parts or mechanisms, recording can start almost right away.

Use it almost anywhere

The SDHC/SD Memory Card is highly resistant to heat, light and impacts, so you can use it in a wide range of conditions.

Quick, easy uploading to a PC

You don't have to connect a cable or run a finalising process when transferring data to a PC.

◊This unit is compatible with both SDHC Memory Cards and SD Memory Cards. You can only use SDHC Memory Cards on devices that are compatible with them. You cannot use SDHC Memory Cards on devices that are only compatible with SD Memory Cards. (When using an SDHC Memory Card on another device, be sure to read the operating instructions for that device.)

* As of July 30, 2007

Record Beautiful Full-HD Video onto an SD Memory Card and DVD Disc SX5

Record for Up to 240 Minutes!

180 minutes
of recording on an 8GB SD Memory Card in HE mode

60 minutes
of recording on a DVD-R-DL disc (60 min) in HE mode

The ability to use both SDHC/SD Memory Cards and DVD discs is a big advantage in full-HD recording, where there is such a large amount of data to store.This double-media system also makes it possible to copy a recording from the SDHC/SD Memory Card to a DVD disc with one-touch ease and convenience.

Functions that Give You More Shooting Flexibility

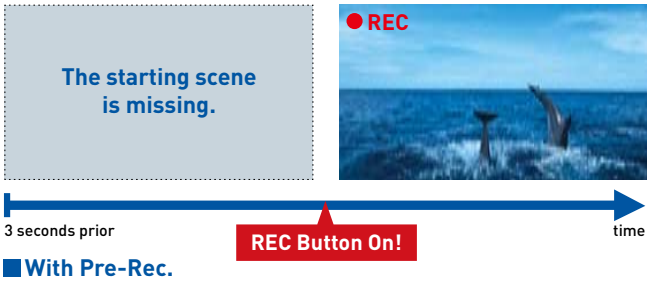
Images are recorded even before you begin shooting SD5 / SX5*

Pre-Rec Function

PRE-REC. This clever new function records three seconds of images even before you actually begin shooting. The images are held temporarily in the camcorder's internal memory, before recording onto the SDHC/SD Memory Card begins. This helps ensure that you won't miss the start of a moment you want to record, such as when an event begins all of a sudden. For example, if you're waiting to snap a shot of a jumping dolphin, you can press the REC button after you've made sure that the dolphin has cleared the surface of the water. The camcorder will record the entire scene, from the instant of the dolphin's jump until it disappears again into the sea.

* Effective in card recording mode.

■Without Pre-Rec.



■With Pre-Rec.

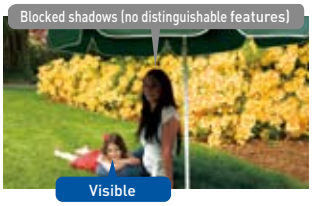
Starts backing up in the internal memory

Prevents wash-out to provide more natural contrast SD5 / SX5

Intelligent Contrast Control

INTELLIGENT CONTRAST CONTROL By detecting the intensity of the ambient light and adjusting the exposure accordingly, Intelligent Contrast Control prevents blown highlights and blocked shadows. This helps render natural-looking, highly nuanced images with proper contrast. Even when you're shooting directly toward the light source – a very challenging situation in photography – Intelligent Contrast Control lets you capture clear images with enhanced depth.

Without Intelligent Contrast Control



The girl facing the sun is fine, but the woman under the parasol is shadowes - you can't see anything there.

With Intelligent Contrast Control

The contrast looks natural. The woman under the parasol has been brightened without making the background appear washed out.

No more missed shooting opportunities! SD5 / SX5*1

1.7-sec Quick Start

In Quick Start mode*2, the camcorder is ready to record just 1.7 seconds after the LCD is opened. You're always ready to capture the moment, even when the unexpected occurs. *1 Effective in card recording mode. *2 This mode can be selected from the menu.

Sharp, crisp LCD images under all conditions SD5 / SX5

Wide Viewing Angle and Power LCD Extra

The new LCD has a highly detailed, 300,000-pixel display, which places it in the top class of the industry, and a viewing angle of 170° both vertically and horizontally. Images are clear and bright even when viewed from an angle, so everyone can gather around the LCD to enjoy on-the-spot recordings. The wide viewing angle is also great for taking high- or low-angle shots.

Power LCD Extra lets you adjust the LCD brightness in two steps by simply pressing the Power LCD button. Plus 1 mode increases brightness by 80% for easy outdoor viewing, and Plus 2 mode emphasises contrast when shooting in strong sunlight conditions such as when skiing or at the beach.

Power LCD Extra Off | Power LCD Extra +1 mode | Power LCD Extra +2 mode

Just push a button and you're ready to shoot SD5

One-Push LCD Open

Push a button next to the mode dial, and the LCD opens and the camcorder is ready to shoot. This easy operation makes it possible to shoot with one hand for active shooting fun.

LCD Open Button

Recording formats to match your playback equipment SX5

Selectable Recording Formats

Mode dial

When recording onto a DVD disc, the SX5 lets you record in either full-HD or standard definition. The mode dial makes it easy to choose the recording format that matches your playback equipment. When playing back with a DVD player or recorder, select standard definition. When viewing on an HDTV or using a Blu-ray Disc player, choose full-HD.

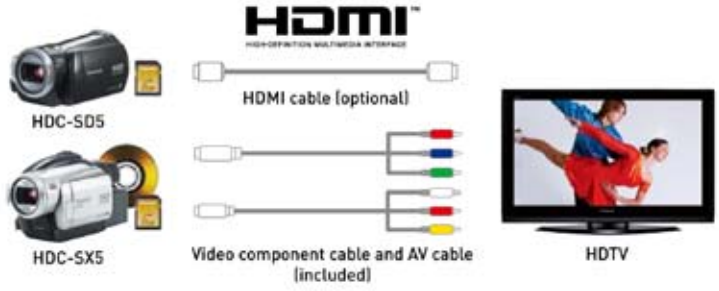
View Images in Beautiful Full-HD, and Archive Your Recordings Easily

Viewing SD5 / SX5

Connecting to an HDTV via an HDMI Cable – For Breathtaking HD Viewing

Just connect your video camera to an HDTV and you're ready for high-definition viewing. If your TV is HDMI* compatible, a single HDMI cable is all you need. When using a video component cable, you need a separate audio cable.

*HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.



Enjoy the added convenience of VIERA Link

Connect your SD5 or SX5 to a VIERA or compatible Blu-ray Disc player via an HDMI cable, and you can control both units in synchronised operation with a single remote control.This kind of simple, easy operation makes it even more fun to view your recordings.

*With VIERA Link, a control signal sent through the HDMI cable allows linked operation of a VIERA TV, compatible DIGA recorder, and the SD5 or SX5. Please note that this function applies only to equipment that is compatible with VIERA Link, and that VIERA Link does not let you control every function of all connected equipment.

Viewing SD5 / SX5

View Recordings Easily on the VIERA PZ700 Series*

Simply take the SDHC/SD Memory Card from your SD5 or SX5 camcorder and slip it into the card slot on your Panasonic VIERA PZ700, and you're ready to view full-HD images recorded in the AVCHD format.

*With other SD card slot-equipped VIERA models, you can view JPEG format still images.

Viewing SX5

View Your Recordings on a Blu-ray Disc Player

Simply slip the DVD disc into the DMP-BD10A Blu-ray Disc Player. There are no cables to connect. It's that easy.

*The disc must be finalised prior to playback.

*Only the TH-65PZ700A and TH-58PZ700A are compatible with AVCHD through the Card Slot.

Archiving and Viewing SD5

Using a DVD Burner to Create and Play Back a DVD

DVD Burner (VW-BN1)
A DVD burner for easy video copying and playback.

Archiving

The SD5's USB Host function lets you connect directly to a DVD burner via a USB cable. You can then copy recordings from the SD Memory Card to a DVD disc, maintaining their original Full-HD format, by simply pressing a button.

Viewing

To view the disc you just burned, simply connect the SD5 to an HDTV via an HDMI cable.

*The 12 cm DVD discs that you create with a DVD burner can be played on a Blu-ray Disc player.

Archiving SX5

Copying from an SD Memory Card to a DVD Disc – Without a PC

Using just the SX5 itself, you can copy video clips from an SD Memory Card to a DVD disc. Pressing a single button is all it takes. You don't need to use a PC or any other equipment.

Disc copy button

Archiving SD5 / SX5

Archive Recordings by Selecting the Format with a PC and Burning Them onto a DVD

The software included with the SD5 and SX5 lets you burn full-HD recordings from an SD Memory Card onto a DVD disc, using your PC. You can make a copy either in the original high-definition AVCHD format, or in the standard-definition DVD-VIDEO format. Choose the one that matches your playback equipment.

Easy Editing Gives You More Ways to Enjoy Video

HD Writer 2.0E

The SD5 and SX5 also come with software that makes it easy to edit your recordings using a PC. You can then copy the edited video to a DVD disc in either the AVCHD or the MPEG2 format. Choose the one that best suits your playback equipment or how you intend to use your recordings. This easy-to-use software gives you more creative ways to enjoy the recordings you make.

Quick & Easy!

The software guides you through the simple steps. You'll find editing easy to do, even if it's your first time.

OPTIONAL ACCESSORIES

POWER

Rechargeable Lithium-Ion Battery Pack*1

(For SD5)
7.2 V/1320 mAh
VW-VBG130-K

(For SX5)
7.2 V/2640 mAh
VW-VBG260-K

Battery Life (in HG mode recording)

	Battery Pack	Voltage/Capacity	Charging Time	Continuous Recording Time		Actual Recording Time	
HDC-SD5	VW-VBG130-K	7.2 V / 1320 mAh	2 h 20 min	1 h 30 min		55 min	
HDC-SX5 Using a DVD-RAM disc	VW-VBG260-K	7.2 V / 2640 mAh	4 h 00 min	When using the viewfinder 2 h 00 min	When using the LCD monitor 1 h 55 min	When using the viewfinder 50 min	When using the LCD monitor 50 min
HDC-SX5 Using an SD Memory Card				When using the viewfinder 2 h 55 min	When using the LCD monitor 2 h 40 min	When using the viewfinder 1 h 45 min	When using the LCD monitor 1 h 40 min

- This is a guideline that includes time for operations such as starting and stopping the recording, turning the power on and off, and zooming.
- The actual time is shorter.

AC Adaptor

VW-AD21-K

SHOOTING

Filter Kit
Shooting under strong light and lens protection

VW-LF37W

Tele Conversion Lens

VW-T3714H

Wide Conversion Lens

VW-W3707H

Shoe Adaptor
Foldable design & compact size

VW-SK12-K

Video DC Light
Video shooting in the dark

VW-LDC102-S

DATA TRANSFERRING

DVD Burner
(For SD5)

VW-BN1

SDHC/SD Memory Card*2

8GB RP-SDV08G
4GB RP-SDV04G
RP-SDM04GB
2GB RP-SDV02G
RP-SDM02GB
1GB RP-SDV01G
RP-SDR01G

HDMI Cable

RP-CDHG15 (1.5 m)
RP-CDHG30 (3.0 m)
RP-CDHG50 (5.0 m)
RP-CDHG70 (7.0 m)
RP-CDHG100 (10 m)

DVD Disc

DVD-RAM
LM-AF30E/
LM-AF60E

DVD-RW
LM-RW30E/LM-RW60E

DVD-R
LM-RF30E/LM-RF60E

DVD-R-DL
LM-RF55LE

*1 • The VW-VBG130-K and VW-VBG260-K come with a function to check whether the battery and unit can be safely used together.
• Batteries made by other companies which have been certified by Panasonic may be used with these units, but we offer no guarantee as to the quality, performance or safety of such batteries.
• Exercise care when purchasing batteries. Many fake or imitation batteries have been found among those sold at unusually low prices and those which customers cannot check for themselves before purchasing.
• Please confirm the latest information about batteries on the following website. **http://panasonic.co.jp/pavc/global/cs/info/battery.html**

*2 • An SDHC/SD Memory Card utilises a portion of the storage space for formatting and other purposes. •Usable capacity will be less.

FEATURE COMPARISON

	HDC-SD5	HDC-SX5
High-Quality Pictures		
Media	SDHC/SD Memory Card	8 cm DVD Disc (-R,-RW,-RAM), SDHC/SD Memory Card
Recording Fomat	AVCHD	AVCHD (High-definition) DVD-VIDEO (Standard-definition)
Full-HD Recording	1920 x 1080	1920 x 1080
3CCD Camera System	Yes	Yes
Advanced O.I.S. (Optical Image Stabiliser)	Yes	Yes
Leica Dicomar Lens	Yes	Yes
Image Processing LSI	HD Crystal Engine	HD Crystal Engine
Optical Zoom	10x	10x
Still Picture Recording	2.1 Megapixels	2.1 Megapixels
Simultaneous Motion Video & Still Picture Recording	Yes (2.1 Megapixels)	Yes (2.1 Megapixels)
Ease and Versatility		
LCD	2.7" wide, 300k pixels	2.7"wide, 300k pixels
Power LCD Extra	Yes	Yes
Wide Viewing Angle LCD	170 degrees (vertically and horizontally)	170 degrees (vertically and horizontally)
One-Push LCD Open	Yes	-
1.7-sec Quick Start	Yes	Yes (Effective in card recording mode)
Pre-Rec Function	Yes	Yes
Intelligent Contrast Control	Yes	Yes
One-Touch Navigation	Yes	Yes
Help Mode	Yes	Yes
Direct Mode Dial	Yes	Yes
Built-in Flash	Yes	Yes
Colour Night View	Yes	Yes
Soft Skin Mode	Yes	Yes
Tele Macro	Yes	Yes
AGS (Anti-Ground Shooting)	Yes	Yes
Lens Cover	Auto	Auto
Accessory Shoe	-	Yes (Hot)
Focus Assist	Yes	Yes
Composition Guide Lines	Yes	Yes
Thumbnail View	Yes	Yes
Networking		
Disc Copy Function	Yes*1	Yes*2
USB Host Function	Yes	-
Hi-Speed USB (USB2.0)	Yes	Yes
SDHC/SD Memory Card Compatible	Yes	Yes
PictBridge Compatible	Yes	Yes

*1 When using a DVD burner (VW-BN1), data from an SD Memory Card can be copied to a 12-cm DVD disc.
*2 Data from an SD Memory Card can be copied to an 8-cm DVD disc entirely within the SX5 itself.

Motion-Image Recording Times (approx.)

HDC-SD5/SX5

Mode \ Capacity	SDHC Memory Card		SD Memory Card		
	8GB*	4GB*	2GB*	1GB*	512MB*
HG (13 Mbps)	80 min	40 min	20 min	10 min	5 min
HN (9 Mbps)	120 min	60 min	30 min	15 min	7 min
HE (6 Mbps)	180 min	90 min	45 min	22 min	10 min

*Usable capacity will be less.
•These figures vary depending on the pictures being recorded.

HDC-SX5

Mode		DVD-RAM (dual-sided)	DVD-RW (dual-sided)	DVD-R DL (dual-layer)	DVD-R (single-sided)
High-Definition	HG (13 Mbps)	28 min	28 min	26 min	14 min
	HN (9 Mbps)	42 min	42 min	40 min	21 min
	HE (6 Mbps)	62 min	62 min	60 min	31 min
Standard-Definition	XP (10 Mbps)	36 min	36 min	35 min	18 min
	SP (5 Mbps)	74 min	74 min	69 min	37 min
	LP (2.5 Mbps)	150 min	150 min	138 min	74 min

Number of Recordable Still Images (approx.)

HDC-SD5/SX5

Image Quality \ Capacity		SDHC Memory Card		SD Memory Card		
		8GB*	4GB*	2GB*	1GB*	512MB*
1920 x 1080 pixels [16:9] 2.1 Mega	High Picture Quality	6690	3290	1670	820	410
	Normal Picture Quality	10520	5160	2630	1290	640

• High Picture Quality Normal Picture Quality
• These figures vary depending on the subject being photographed.
*Usable capacity will be less.

*We recommend using a DVD disc made by Panasonic for motion-image recording.
*We recommend using SD Memory Cards and SDHC Memory cards conforming to class 2 or higher of the SD Speed Class Rating or the following SD Memory Cards made by Panasonic for motion picture recording.
*Please confirm the latest information about DVD discs and SD/SDHC Memory Cards that can be used for motion-image recording, on the following website.
http://panasonic.co.jp/pavc/global/cs/e_cam

System Requirements

HDC-SD5/SX5

	HD Writer 2.0E (For SD5/SX5)	Card Reader Function (Mass Storage)
Interface	USB port (Hi-Speed USB (USB 2.0))	USB port
OS	Windows® 2000 SP4 Windows® XP SP2 Windows Vista™ Home Basic/ Home Premium/Ultimate	Windows® 2000 SP4 Windows® XP SP2 Windows Vista™
CPU	Intel® Pentium® III 1.0 GHz or higher <When using playback function and MPEG2 conversion function> Intel® Core™2 Duo 1.86 GHz or higher, Intel® Pentium®D 3.0 GHz or higher recommended.	Windows® 2000 / Windows® XP: Intel® Pentium® III 450 MH Hz or higher or Intel® Celeron® 400 MHz or higher Windows Vista™ : 32-bit (x86) processor, 1 GHz or higher

•Even if the system requirements mentioned in these operating instructions are fulfilled, some personal computers can not be used. •This software is not compatible with Microsoft Windows 3.1, Windows 95, Windows 98, Windows Me and Windows NT. •The supplied CD-ROM is available for Windows only. •Operation on an upgraded OS is not guaranteed. •When 2 or more USB devices are connected to a PC, or when devices are connected through USB hubs or by using extension cables, proper operation is not guaranteed. •Operation on an OS other than the one pre-installed is not guaranteed. •This software does not support the multi-boot environments. •Operation is not guaranteed on Microsoft Windows Vista Business/Enterprise,Windows XP Media Center Edition, Tablet PC Edition and not compatible with 64 bit operation systems. •Available with administrator account in Windows 2000 and Windows XP •Available with administrator account or standard account in WindowsVista (Installation and uninstallation of the software requires an administrator account.)
•Microsoft and Windows and WindowsVista™ are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. •Intel®, CoreTM and Pentium ® are registered trademarks or trademarks of Intel Corporation in the United States and the other countries. •Other names of systems and products mentioned in these instructions are generally the registered trademarks or trademarks of the manufacturers who developed the system or product concerned.

SPECIFICATIONS

HDC-SD5

HDC-SX5

Included!

HDC-SD5 / SX5

GENERAL	
Power Supply	DC 7.2/9.3 V
Power Consumption	**SD5:** 6.7 W **SX5:** 10.2 W
Weight (w/o Battery)	**SD5:** 340 g **SX5:** 540 g
Dimensions (W x H x D)	**SD5:** 65 x 67 x 135 mm **SX5:** 83.5 x 93.5 x 151.5 mm
Recording Formats	**SD5:** AVCHD (Motion Image) / JPEG (Still Image) **SX5:** HD*: AVCHD / STD*: DVD Video Recording, DVD Video (Motion Image) / JPEG (Still Image)
LENS SECTION	
Image Sensor	1/6"CCD x 3 Total pixels: 560 k x 3 Effective pixels: 520k x 3 [16:9] (Motion Image / Still Image)
F Value	F1.8 (WIDE) / F2.8 (TELE)
Optical Zoom	10x Variable Speed Zoom
Focal Length	3.0—30.0 mm
Filter Diameter	37 mm
35mm Film Camera Equivalent	42.9—429 mm [16:9](Motion Image / Still Image)
Lens Brand	Leica Dicomar
CAMERA SECTION	
Minimum Illumination	5 Lux (1/25 Low Light Mode), 1 Lux (Colour Night View Mode)
Focus	AF / Manual
White Balance	Auto / Indoor / Outdoor / White Set (with IR Sensor)
Shutter Speed	1/25—1/8000 sec (Motion Image), 1/25—1/8000 sec (Still Image)(Progressive 1/25—1/500)
Iris	Auto / Manual
Backlight Compensation	Yes
Electronic View Finder	**SD5:** — **SX5:** 0.44" Wide EVF
Monitor	2.7" Wide LCD (300 k pixels)
Microphone	2-ch Stereo, Zoom Microphone
On-Screen Display Language	English / Chinise (Traditional) / Russian Arabic / Persian / Thai / Hindi
Image Stabiliser	Advanced O.I.S.
Digital Zoom	25x—700x
Flash	1 m—2.5 m (approx.)
Quick Start	**SD5:** 1.7-sec **SX5:** 1.7-sec (effective in the card recording mode)
DISC SECTION (SX5)	
Applicable Discs	8 cm DVD-RAM Ver.2.1 / 8 cm DVD-R for General Ver.2.0 / 8 cm DVD-RW Ver.1.1 2x-speed(2x/1x) / DVD-R for DL Ver.3.0
Cue/Review	Forward / Reverse
Skip	Forward / Reverse

CARD SECTION	
Card Slot	SDHC / SD
Still Picture	JPEG Picture size: 1920x1080 [16:9] 2.1 Megapixels
DPOF	Max 999 stills
PictBridge	Yes
RECORDING SECTION	
Video Compression	**SD5:** MPEG-4 AVC/H.264 **SX5:** HD*: MPEG-4 AVC/H.264, STD*: MPEG-2
Recording Modes	**SD5:** HG (13 Mbps / CBR), HN (9 Mbps / VBR), HE (6 Mbps / VBR) **SX5:** HD*: HG (13 Mbps / CBR), HN (9 Mbps / VBR), HE (6 Mbps / VBR) STD*: XP (10 Mbps / VBR), SP (5 Mbps / VBR), LP (2.5 Mbps / VBR)
Playback Modes	**SD5:** HG (13 Mbps / CBR), HN (9 Mbps / VBR), HE (6 Mbps / VBR) **SX5:** HD*: HG (13 Mbps / CBR), HN (9 Mbps / VBR), HE (6 Mbps / VBR) STD*: XP (10 Mbps / VBR), SP (5 Mbps / VBR), LP (2.5 Mbps / VBR)
Audio Recording System	Dolby Digital (Dolby AC3) / 2-channel
INTERFACES	
AV	Out
USB	**SD5:** Hi-Speed USB (USB 2.0)(mini AB) **SX5:** Hi-Speed USB (USB 2.0)(mini B)
HDMI	Yes
Video Component	Yes
Accessory Shoe	**SD5:** — **SX5:** Yes (Hot)
STANDARD ACCESSORIES	
AC Adaptor	Yes
AC Cable	Yes
DC Cable	Yes
Battery Pack	**SD5:** Rechargeable Lithium-Ion (7.2 V/1320 mAh) **SX5:** Rechargeable Lithium-Ion (7.2 V/2640 mAh)
Video Component Cable	Yes
AV Cable	Yes
IR Remote	Yes
PC Cable	Yes
SD Memory Card	**SD5:** 4GB **SX5:** —
Editing software	HD Writer 2.0E

*HD: High-Definition/STD: Standard-Definition •The remaining battery capacity is displayed in minutes when using the applicable Panasonic battery. •When using batteries made by other companies the remaining battery capacity will not be shown. •We cannot accept any liability whatsoever for damages to the unit or accidents caused by non-genuine Panasonic batteries (including those that have been certified by Panasonic).

AVCHD

• AVCHD is a new standard for recording HD signals onto memory cards, DVD discs, and hard disks. It uses the H.264 standard to achieve more than twice the compression of conventional MPEG2 and MPEG4 standards.
• AVCHD motion images recorded onto an SD Memory Card or a DVD disc cannot be played from a device that does not support the AVCHD standard.
• Do not insert a disc containing AVCHD-recorded images into a device that does not support the AVCHD standard. The disc cannot be played on such a device, and it may not be possible to remove the disc once inserted.

•Weight and dimensions shown are approximate. •Design, functions, and specifications are subject to change without notice. •All monitor and TV pictures are simulated. •Some accessories are not available in some countries. •1GB=1 billion bytes. Usable capacity will be less. •You are not allowed to reproduce (copy), or transfer to a network, any part of the software applications supplied with this product for commercial purposes without written authorisation. •Panasonic will in no way be liable for any damages sustained directly or indirectly from the use of this product or from any trouble occurring therein. •Panasonic will also in no way be liable for any losses of data caused by this product. •The SDHC logo is a trademark. •The SD logo is a trademark. • Microsoft®, Windows® and DirectX® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.•Leica is a registered trademark of Leica Microsystems IR GmbH. •Dicomar is a registered trademark of Leica Camera AG. •Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation. •Other names of systems and products mentioned in this brochure are generally the registered trademarks or trademarks of the manufacturers who developed the system or product concerned. •Microsoft®, Windows®, and NetMeeting® are registered trademarks of Microsoft Corporation of the U.S.A. •All other company and product names are trademarks of their respective corporations.

Beijing 2008

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